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APR 25 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/485,045

DATE: 04/12/2001
 TIME: 16:00:19

Input Set : A:\jhul440-1.ST25.txt
 Output Set: N:\CRF3\04122001\I485045.raw

ENTERED

3 <110> APPLICANT: The Johns Hopkins School of Medicine
 4 Lee, Se-Jin
 5 Huynh, Thanh
 6 Suzanne, Sebald
 8 <120> TITLE OF INVENTION: Growth Differentiation Factor-16
 10 <130> FILE REFERENCE: jhul440-1
 12 <140> CURRENT APPLICATION NUMBER: 09/485,045
 13 <141> CURRENT FILING DATE: 2000-05-12
 15 <150> PRIOR APPLICATION NUMBER: PCT/US98/15148
 16 <151> PRIOR FILING DATE: 1998-07-24
 18 <150> PRIOR APPLICATION NUMBER: 60/054,606
 19 <151> PRIOR FILING DATE: 1997-07-31
 21 <160> NUMBER OF SEQ ID NOS: 3
 23 <170> SOFTWARE: PatentIn version 3.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 303
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Human
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 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (1)..(303)
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 36 Ala Gln Gly Asp Cys Asp Pro Glu Ala Pro Val Thr Glu Gly Thr Cys
 37 1 5 10 15
 39 tgc tgc cac cag gag atg tac act gac ctg cag ggg atg aag tgg gcc 96
 40 Cys Cys His Gln Glu Met Tyr Thr Asp Leu Gln Gly Met Lys Trp Ala
 41 20 25 30
 43 aag aac tgg atg gtc gag ccc ctg ggc ttc ctg gct tac aag tgt gtc 144
 44 Lys Asn Trp Met Val Glu Pro Leu Gly Phe Leu Ala Tyr Lys Cys Val
 45 35 40 45
 47 ggc acc tgc cag cag ccc ctg gag ggc ctg gcc ttc aat tgg cca ttt 192
 48 Gly Thr Cys Gln Gln Pro Leu Glu Ala Leu Ala Phe Asn Trp Pro Phe
 49 50 55 60
 51 ctg ggg ccg cga cac tgc atc gcc tca gag act gcc tcg ctg ccc atg 240
 52 Leu Gly Pro Arg His Cys Ile Ala Ser Glu Thr Ala Ser Leu Pro Met
 53 65 70 75 80
 55 atc atc agc atc aag gag gga ggc agg acc agg ccc cag gtg gtc agc 288
 56 Ile Ile Ser Ile Lys Glu Gly Gly Arg Thr Arg Pro Gln Val Val Ser
 57 85 90 95
 59 ctg ctc aac atg agg 303
 60 Leu Pro Asn Met Arg
 61 100
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 65 <211> LENGTH: 101
 66 <212> TYPE: PRT
 67 <213> ORGANISM: Human

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69 <400> SEQUENCE: 2
71 Ala Gln Gly Asp Cys Asp Pro Glu Ala Pro Val Thr Glu Gly Thr Cys
72 1 5 10 15
75 Cys Cys His Gln Glu Met Tyr Thr Asp Leu Gln Gly Met Lys Trp Ala
76 20 25 30
79 Iys Asn Trp Met Val Glu Pro Leu Gly Phe Leu Ala Tyr Lys Cys Val
80 35 40 45
83 Gly Thr Cys Gln Gln Pro Leu Glu Ala Leu Ala Phe Asn Trp Pro Phe
84 50 55 60
87 Leu Gly Pro Arg His Cys Ile Ala Ser Glu Thr Ala Ser Leu Pro Met
88 65 70 75 80
91 Ile Ile Ser Ile Lys Glu Gly Gly Arg Thr Arg Pro Gln Val Val Ser
92 85 90 95
95 Leu Pro Asn Met Arg
96 100
99 <210> SEQ ID NO: 3
100 <211> LENGTH: 4
101 <212> TYPE: PRT
102 <213> ORGANISM: Homo sapiens
104 <220> FEATURE:
105 <221> NAME/KEY: VARIANT
106 <222> LOCATION: (1)..(4)
107 <223> OTHER INFORMATION: X = any amino acid
110 <400> SEQUENCE: 3
112 Arg Xaa Xaa Arg
113 1

OK

VERIFICATION SUMMARY DATE: 04/12/2001
PATENT APPLICATION: US/09/485,045 TIME: 16:00:20

Input Set : A:\jhu1440-1.ST25.txt
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L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3